TABLE OF CONTENTS

ABRAHAMS, PETER W., MARTYN TRANTER, TREVOR D. DAVIES, IAIN L. BALCKWOOD, and SHELDON LANDSBERGER / Trace-Element Studies in a Remote Scottish Upland Catchment 255

BUISSON, R. S. K., P. W. W. KIRK, and J. N. LESTER / The Behavior of Selected Chlorinated Organic Micropollutants in the Activated Sludge Process: A Pilot Plant Study 419

CHEN, MIN / Pollution of Ground Water by Nutrients and Fecal Coliforms from Lakeshore Septic Tank Systems 407

FERMIN, GLORIA VILACLARA, ALFONSO LUGO, PEDRO RAMIREZ, ESPERANZA ROBLES, and ANTONIO LABASTIDA / A Comparison Between the Spatial Distribution Pattern of Flagellates and some Physicochemical Parameters in a Waste Stabilization Pond 1

GOLD, A. J., T. G. MORTON, W. M. SULLIVAN, and J. McCLORY / Leacing of 2,4-D and Dicamba from Home Lawns 121

GRAHAM, RICHARD C., JOHN K. ROBERTSON, LEROY SCHRODER, and JOHN LAFEMINA / Atmospheric Deposition Sampler Intercomparison 139

GUPTA, G. S., G. PRASAD, K. K. PANDAY, and V. N. SINGH / Removal of Chrome Dye from Aqueous Solutions by Fly Ash 13

HAAS, CHARLES N., PAUL BITTER, and PETER A. SCHEFF / Preliminary Determination of Limiting Nutrients for Standard Plate Count Organisms in Chicago Intake Water 65

HADERLEIN, STEFAN and KLAUS PECHER / Mobility of Chlorofluorocarbons in Deposits of Shredder Wastes from Plastic and Metal Utilizing Industries 459

HAMAN, SALAH E. M., MOHAMED F. HAMODA, HABIB I. SHABAN, and AMAL S. KILANI / Crude Oil Dissolution in Saline Water 55

HEIT, MERRILL, YULIN L. TAN, and KEVIN M. MILLER / The Origin and Deposition History of Polycyclic Aromatic Hydrocarbons in the Finger Lakes Region of New York 85

JONES, ROBERT, KIMBERLY A. PROHASKA, and MAGDALENA S. E. BURGESS / Zinc and Cadmium in Corn Plants Growing near Electrical Transmission Towers 355

JOSHI, S. R. / West Valley-Derived Radionuclides in the Niagara River Area of Lake Ontario 111

KAPLAN, D. I., W. G. BURKMAN, and D. C. ADRIANO / Response of Loblolly Pine (*Pinus taeda* L.) Seedlings to Soil- Applied Organo, Borates 73

LARKIN, R. P. and M. KELLY / A Short-term Microcosm Evaluation of CO_2 Evolution from Litter and Soil as Influenced by SO_2 and SO_4 Additions 273

LINN, J. H. and H. A. ELLIOTT / Mobilization of Cu and Zn in Contaminated Soil by Nitrilotriacetic Acid 449

LUNG, WE-CHUN, AARON L. MILLS, LISE A. MOVALL, and ALAN T.

HERLIHY / Modeling Fate and Transport of Sulfate and Alkalinity in an Acidified Lake 157
MAMANE, Y. and T. G. DZUBAY / Fly Ash Concentrations in Philadelphia Aerosol Determined by Electron Microscopy 389
MARIE LØBERSLI, ELSE MARIE and EILIV STEINNES / Metal Uptake in Plants from a Birch Forest Area near a Copper Smelter in Norway 25
MASON, C. F. and S. M. MACDONALD / Radioactivity in Otter Scats in Britain Following the Chernobyl Reactor Accident 131
McLELLAN, J. K. and C. A. ROCK / Pretreating Landfill Leachate with Peat to Remove Metals 203
MUKHERJEE, ANITA and ARCHANA SHARMA / Effects of Cadmium and Selenium on Cell Division and Chromosomal Aberrations in *Allium sativum* L. 433
OKEREKE, VICTOR I., E. ROBERT BAUMANN, T. AL AUSTIN, and DONNA SCHULZE LUTZ / Midwest (U.S.A.) Reservoir Water Quality Modification. III. Soluble Nutrients 343
OKEREKE, VICTOR I., E. ROBERT BAUMANN, T. AL AUSTIN, and DONNA SCHULZE LUTZ / Midwest (U.S.A.) Reservoir Water Quality Modification. II. Oxygen-Demanding Parameters 325
OKEREKE, VICTOR I., E. ROBERT BAUMANN, T. AL AUSTIN, and DONNA SCHULZE LUTZ / Midwest (U.S.A.) Reservoir Water Quality Modification. I. Particulate Parameters 309
PARDUE, JOHN H., RONALD D. DELAUNE, and WILLIAM H. PATRICK, Jr. / Effect of Sediment pH and Oxidation-Reduction Potential on PCB Mineralization 439
PRATT, J. R., P. V. McCORMICK, K. W. PONTASCH, and J. CAIRNS, JR. / Evaluating Soluble Toxicants in Contaminated Soils 293
RAO, Y. PRABHAKARA, V. UMA DEVI, and D. G. V. PRASADA RAO / Influence of Temperature on Copper Accumulation and Depuration in a Tropical Cerithiid *Cerithidea* (*Cerithideopsilla*) *Cingulata RIVERA*, (*Gmelin 1790*) 365
SPRENGER, MARK D., ALAN W. McINTOSH, and STEPHANIE HOENIG / Concentrations of Trace Elements in Yellow Perch (*Perca flavescens*) from Six Acidic Lakes 375
TURK, JOHN T. / Natural Variance in pH as a Complication in Detecting Acidification of Lakes 171
V.-BALOGH, KATALIN / Comparison of Mussels and Crustacean Plankton to Monitor Heavy Metal Pollution 281
VAN DER HOEK, JAN PETER, WIM F. VAN DER HOEK, and ABRAHAM KLAPWIJK / Nitrate Removal from Ground Water – Use of a Nitrate Selective Resin and a Low Concentrated Regenerant 41
WALDMAN, JED M. and MICHAEL R. HOFFMANN / Nutrient Leacing from Pine Needles Impacted by Acidic Cloudwater 193
WIEDER, R. KELMAN, KATHERINE P. HESTON, ELLEN M. O'HARA, GERALD E. LANG, ALFRED E. WHITEHOUSE, and JACK HETT / Aluminum Retention in Man-Made *Sphagnum* Wetland 177

WINCHESTER, JOHN W., SONG-MIAO FAN, and SHAO-MENG LI / Methane and Nitrogen Gases from Rice Fields of China – Possible Effects of Microbiology, Benthic Fauna, Fertilizer, and Agricultural Practice 149
ZOLTAI, S. C. / Distribution of Base Metals in Peat near a Smelter at Flin Flon, Manitoba 217

BOOK REVIEWS

Appropriate Technology for the Treatment of Wastewaters for Small Rural Communities (T. VIRARAGHAVAN) 241
Environmental Pollution Control in Relation to Development (T. VIRARAGHAVAN) 238
Guidelines for Drinking-Water Quality (T. VIRARAGHAVAN) 237
Management from Waste from Hospitals (T. VIRARAGHAVAN) 240
Acid Deposition – Long Term Trends (A. S. KALLEND) 229
Barnes, D., C. F. Forster, and S. E. Hrudey, *Surveys in Industrial Wastewater Treatment* (T. VIRARAGHAVAN) 479
Bjorseth, A. and G. Angletti (eds.), *Organic Micropollutants in the Aquatic Environment* (ELLIOT ATLAS) 232
Bourne, P. G., *Water and Sanitation: Economic and Sociological Perspectives* (T. VIRARAGHAVAN) 236
Boyle, W. C., *Aeration Systems: Design, Testing, Operation and Control* (T. VIRARAGHAVAN) 475
Briscoe, J., R. G. Feachem, and M. M. Rahaman, *Evaluting Health Impact: Water Supply, Sanitation, and Hygiene Education* (T. VIRARAGHAVAN) 242
Casey, T. J., P. L'Hermite, and P. J. Newman, *Methods of Characterization of Sewage Sludge* (T. VIRARAGHAVAN) 239
Chin, K. K. and K. Kumarasivam, *Industrial Water Technology* (T. VIRARAGHAVAN) 239
Clark, R. B., *Marine Pollution* (ELLIOT ATLAS) 234
Culp, G., *Trihalomethane Reduction in Drinking Water: Technologies, Costs, Effectiveness, Monitoring, Compliance* (T. VIRARAGHAVAN) 235
Florentz, M. and J. Sibony, *Enhanced Biological Phosphorus Removal from Wastewater* (T. VIRARAGHAVAN) 478
Henderson-Sellers, B., *Engineering Limnology* (T. VIRARAGHAVAN) 480
Henze, M., *Modelling of Biological Wastewater Treatment* (T. VIRARAGHAVAN) 476
Jorgensen, S. E., and M. J. Gromiec, *Mathematical Models in Biological Wastewater Treatment* (T. VIRARAGHAVAN) 485
Khan, A. H., *Desalination Processes and Multistage Flash Distillation Practie* (T. VIRARAGHAVAN) 479
Kindler, J. and C. S. Russell, *Modeling Water Demands* (T. VIRARAGHAVAN) 482
Lee, J. A., *The Environment, Public Health, and Human Ecology: Considerations for Economic Development* (T. VIRARAGHAVAN) 477

Marini-Bettolo, G. B., *Chemical Events in the Atmosphere and Their Impact on the Environment* (T. VIRARAGHAVAN) 483
McCormick, John, *Acid Earth: The Global Threat of Acid Pollution* (LYNNE ASHMAN and ELMER ROBINSON) 230
Pawlowski, L., G. Alaerts, and W. J. Lacy, *Chemistry for Protection of the Environment* (T. VIRARAGHAVAN) 485
Rantala, P. and A. Luonsi, *Anaerobic Treatment of Forest Industry Wastewaters* (T. VIRARAGHAVAN) 236
Salzberg, E. R. and G. C. Cushine, Jr., *Centralized Waste Treatment of Industrial Wastewater* (T. VIRARAGHAVAN) 236
Schneider, T., *Acidification and Its Policy Implications* (T. VIRARAGHAVAN) 483
Thomas, R. D., *Drinking Water and Health* (T. VIRARAGHAVAN) 486
Winneberger, J. H. T., *Septic Tank Systems: A Consultant's Toolkit* (T. VIRARAGHAVAN) 481

REVIEW ARTICLE

RICHMAN, LISA A., CHRISTOPHER D. WREN, and PAMELA M. STOKES / Facts and Fallacies Concerning Mercury Uptake by Fish in Acid Stressed Lakes 465

ANNOUNCEMENTS 243, 489

PUBLISHER'S ANNOUNCEMENT v

PUBLISHER'S NOTICE vi